

CLAIMS

- 5 1. A non-human transgenic mammal which comprises cells containing a construct of a heat shock protein (hsp) promoter linked to the growth hormone (GH) gene sequence.
2. A non-human transgenic mammal according to claim 1, wherein the heat shock protein promoter is hsp70 gene promoter.
- 10 3. A non-human transgenic mammal according to claim 1, which is a rodent.
4. A non-human transgenic mammal according to claim 3, which is a mouse.
- 15 5. A method for the study of chemical, physical and biological toxic agents which comprises:
- A a) exposing the transgenic mammal of ~~claims 1-4~~ ^{claim 1} to the ~~toxic agent~~;
- 20 b) determining the effect through measurement of the hematic concentration of the reporter-gene.
6. A method according to claim 5, wherein the same animal is used for repeated tests with the same or different toxic agent.
- 25 7. A method according to ~~claims 5-6~~ ^{claim 5}, for the study of toxicity kinetics of one or more toxic agents.
- K 8. A method according to ~~claims 5-6~~ ^{claim 5}, for the study of heat stress.
- A 9. A method according to ~~claims 5-6~~ ^{claim 5}, for the study of metal toxicity.
- 30

AMENDED SHEET

10. A method according to claim 9 for the study of toxicity of metals selected from the group consisting of Rb, Cu, Hg, As and Cd.

5 11. The use of the transgenic mammal of claim 1 for in vivo toxicity studies.

12. The use of a transgenic animal according to claim 11, wherein said animal is a mouse.

add
B5

GRIFFIN, BUTLER, WHISENHUNT & SZIPL, LLP
Suite PH-1
2300 Ninth Street, South
Arlington, VA 22204

Telephone: (703) 979-5700
Facsimile: (703) 979-7429
Customer No.: 113